

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

P1BO
REVISION 6

HAMILTON SUNDSTRAND
MODEL/S: 247F-1
247F-1E
247F-3

March 28, 2003

TYPE CERTIFICATE DATA SHEET P1BO

Propellers of models described herein conforming with this data sheet (which is part of Type Certificate No. P1BO) and other approved data on file with the Federal Aviation Administration, meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Federal Aviation Regulations provided they are installed, operated, and maintained as prescribed by the approved manufacturer's and other approved instructions.

Type Certificate Holder: Hamilton Sundstrand Division
United Technologies Corporation
One Hamilton Road
Windsor Locks, CT 06096-1010

Type: Constant speed; hydraulic (See Notes 3 and 4)

Engine Flange: 6.750" Bolt Circle

Hub Material: Steel

Blade Material: Kevlar Shell/Graphite spar

Number of Blades: Four

Design Series: 247F

BLADE	MAX CONTINUOUS		<TAKE OFF>		<NOM. DIAMETER>	APPROX. WT/LB
	SHP	RPM	SHP	RPM		
R810640-1, -2 or -3	2500	1200	2750	1200	13' - 0"	336.8
R817370-1	2500	1200	2750	1200	13' - 0"	345
R817370R1	2500	1200	2750	1200	13' - 0"	345

Certification Basis: FAR 35 through Amendment 6 dated August 18, 1989 and Special Conditions SA-92-02-NE (Docket No. 92-ANE-46), dated January 8, 1993. For the 247F-1E, additional Special Condition SC-95-01-NE (Docket No. 94-ANE-50) dated November 28, 1995.

TC Application Date: Model: 247F-1 247F-1E 247F-3
5/24/91 3/8/93 9/12/94

TC Issued: 10/23/92 11/23/94 10/12/94

Production Basis: Production Certificate No. 14

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NOTES

NOTE 1:	HUB	MODEL	DESIGNATION	
2	4	7	F	1
				Indicates a specific model designation which defines a complete propeller assembly, including spinner.
				F denotes flange mounting.
				Blade shank size
				Number of blades
				Major model type
NOTE 2:	BLADE MODEL DESIGNATION:	Propeller blades are identified by a part number only, which does not constitute a model designation.		
NOTE 3:	PITCH CONTROL:	Propeller control is specified on the approved model parts list.		
NOTE 4	(a) FEATHERING:	Full feathering with the approved propeller control is specified on approved model parts list.		
	(b) REVERSING:	Full reversing with the approved propeller control is specified on approved model parts list.		
NOTE 5:	LEFT-HAND MODELS:	Not applicable		
NOTE 6:	INTERCHANGEABLE BLADES:	R817370-1 and R817370R1 blades are interchangeable.		
NOTE 7:	ACCESSORIES:	(a) Propeller Deicing: The electrical deicing system is specified on approved model parts list and installed in accordance with the propeller manufacturer's instructions.		
		(b) Spinners: The spinner is specified on approved model parts list.		
NOTE 8:	SHANK FAIRINGS:	Not applicable		
NOTE 9:	SPECIAL LIMITS:	247F-1: Airworthiness limitations as specified in System Maintenance Manual P5202, Propeller Component Maintenance Manual 61-13-11 and Propeller Control Component Maintenance Manual 61-21-15.		
		247F-3: Airworthiness limitations are specified in System Maintenance Manual P5205, Propeller Component Maintenance Manual 61-13-11 and Propeller Control Component Maintenance Manual 61-21-15.		
		247F-1E: Airworthiness limitations as specified in System Maintenance Manual P5204, Propeller Component Maintenance Manual 61-13-11, Propeller Servo Valve Component Maintenance Manual 61-26-01 and Electronic Propeller Control Component Maintenance Manual 61-25-02.		
NOTE 10:	LIFE-LIMITED PARTS:	See Note 9.		
NOTE 11:	BLADES:	The R810640-1, -2, -3, R817370-1 and R1 blades are approved for use with the model propeller in sets of four.		
NOTE 12:	SPECIAL NOTES:	Aircraft installation must be approved as part of the aircraft type certification and demonstrate compliance with the applicable airworthiness requirements.		

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